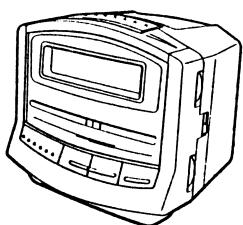




FR-A150

U(B),EZ(B),
LH(B,W)



SERVICE MANUAL

RADIO RECEIVER

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
U(S/M Code No.09-003-339-0T1)
EZ,LH<B,W>(S/M Code No.09-003-339-0T2).

aiwa
S/M Code No. 09-003-339-0R1

REVISION
DATA

SPECIFICATION

Power source	AC 120 V, 60 Hz <U Model> AC 230 V, 50 Hz <EZ Model> AC 110 – 120 V/220 – 240 V, 50/60 Hz, selectable <LH Model>
Output	280 mW (EIAJ)
Power consumption	4 W
Speaker	57 mm, 8 ohms
Frequency range	FM: 87.5 – 108 MHz AM: 530 – 1,710 kHz <U Model> AM: 530 – 1,602 kHz <EZ Model> AM: 530 – 1,605 kHz <LH Model>
Antennas	FM wire antenna Ferrite bar antenna for AM
Maximum outside dimensions (W × H × D)	135 × 120 × 125 mm (5 3/8 × 4 3/4 × 5 in.)
Weight	Approx. 655 g (1.4 lbs.)

- Design and specifications are subject to change without notice.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

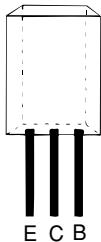
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-RUA-901-010		IB,U(3L)C<U>
1	8A-RUA-904-010		IB,LH(3L)C<LH, LH<W>>
1	8A-RUA-905-010		IB,EZ(EGF)C<EZ>
1	8A-RUA-906-010		IB,EZ(SID)C<EZ>
1	8A-RUA-907-010		IB,EZ(PHNCZ)C<EZ>

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

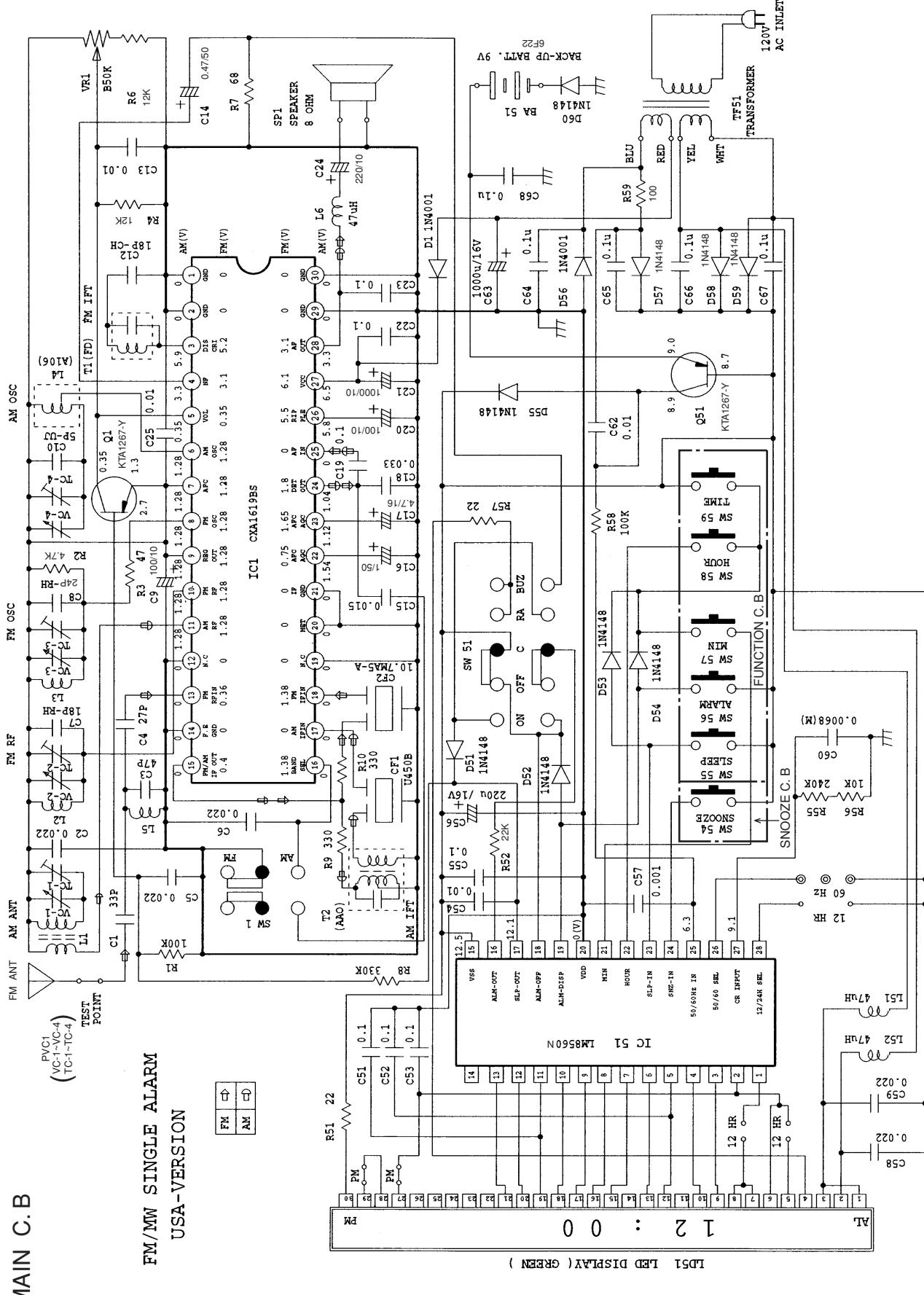
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				L4	8A-RUA-623-010		COIL,AM OSC A106 RED
	8A-RUA-605-010	IC,CXA1619BS		L5	8A-RUA-625-010		COIL,FM ANT4.5*4.5T
	87-A21-201-010	IC,LM8560N		L6	87-003-050-010		CHOKE COIL,47UH
TRANSISTOR				L51	87-003-050-010		CHOKE COIL,47UH
	SZ-KTH-623-080	TR,KTA1267-Y		L52	87-003-050-010		CHOKE COIL,47UH
DIODE				LD51	8A-RUA-618-010		LED,ASSY,CLOCK GREEN<U,EZ>
	87-A40-398-010	DIODE,1N4001		LD51	8A-RUA-619-010		LED,ASSY,CLOCK RED<LH>
	87-070-345-080	DIODE,1N4148		PVC1	8A-RUA-616-010		TUN-CAP,20P-126P-126P MP201<EZ,LH>
MAIN C.B				PVC1	8A-RUA-615-010		TUN-CAP,20P-160P-82P ST505<U>
C1	87-018-113-010	CAP CERA 33P		SW1	8A-RUA-612-010		SW,SLIDE 2C2P BAND
C3	87-018-115-010	CAP,TC-U 47P-50 SL		SW51	8A-RUA-611-010		SW,SLIDE 2C4P FUNCTION
C4	87-018-111-010	CAP TC SS 27P		SW53	8A-RUA-613-010		SW,SLIDE 1C2P F-SELECT<LH>
C7	87-018-163-010	CAP,TC U 18P-50 J RH UP050		T1	8A-RUA-621-010		IPT,FM FD BLK
C8	87-018-177-010	CAP,TC U 24P-50 J UJ UP050		T2	8A-RUA-622-010		IPT,AM AA0 YEL
C9	87-010-263-010	CAP, ELECT 100-10V		VR1	8A-RUA-617-010		VR,RTRY 50KB F-12NP0
C10	87-018-167-010	CAP,TC-U 5P<U>		FUNCTION C.B			
C12	87-018-150-010	CAP, CERA-SOL 18P CH		SW55	8A-RUA-642-010		PLATE,TACT SW
C14	87-010-400-010	CAP, ELECT 0.47-50SME		SW56	8A-RUA-642-010		PLATE,TACT SW
C16	87-010-401-010	CAP, ELECT 1-50V		SW57	8A-RUA-642-010		PLATE,TACT SW
C17	87-010-404-010	CONDENSER 4.7-16		SW58	8A-RUA-642-010		PLATE,TACT SW
C20	87-010-263-010	CAP, ELECT 100-10V		SW59	8A-RUA-642-010		PLATE,TACT SW
C21	87-010-236-010	ELECTROLYTIC, 1000-10		SNOOZE C.B			
C24	87-010-248-010	CAP, ELECT 220-10V		SW54	8A-RUA-642-010		PLATE,TACT SW
C63	87-010-237-010	CAP, ELECT 1000-16V					
CF1	87-A91-162-010	FLTR,PFS450A7					
CF2	87-A90-991-010	FLTR,SFE10.7 MS239-A					
L1	8A-RUA-624-010	ANT,BER W/CORE					
L2	8A-RUA-626-010	COIL,FM RF4.5*3.5T					
L3	8A-RUA-627-010	COIL,FM OSC4.7*2.5T					

TRANSISTOR ILLUSTRATION

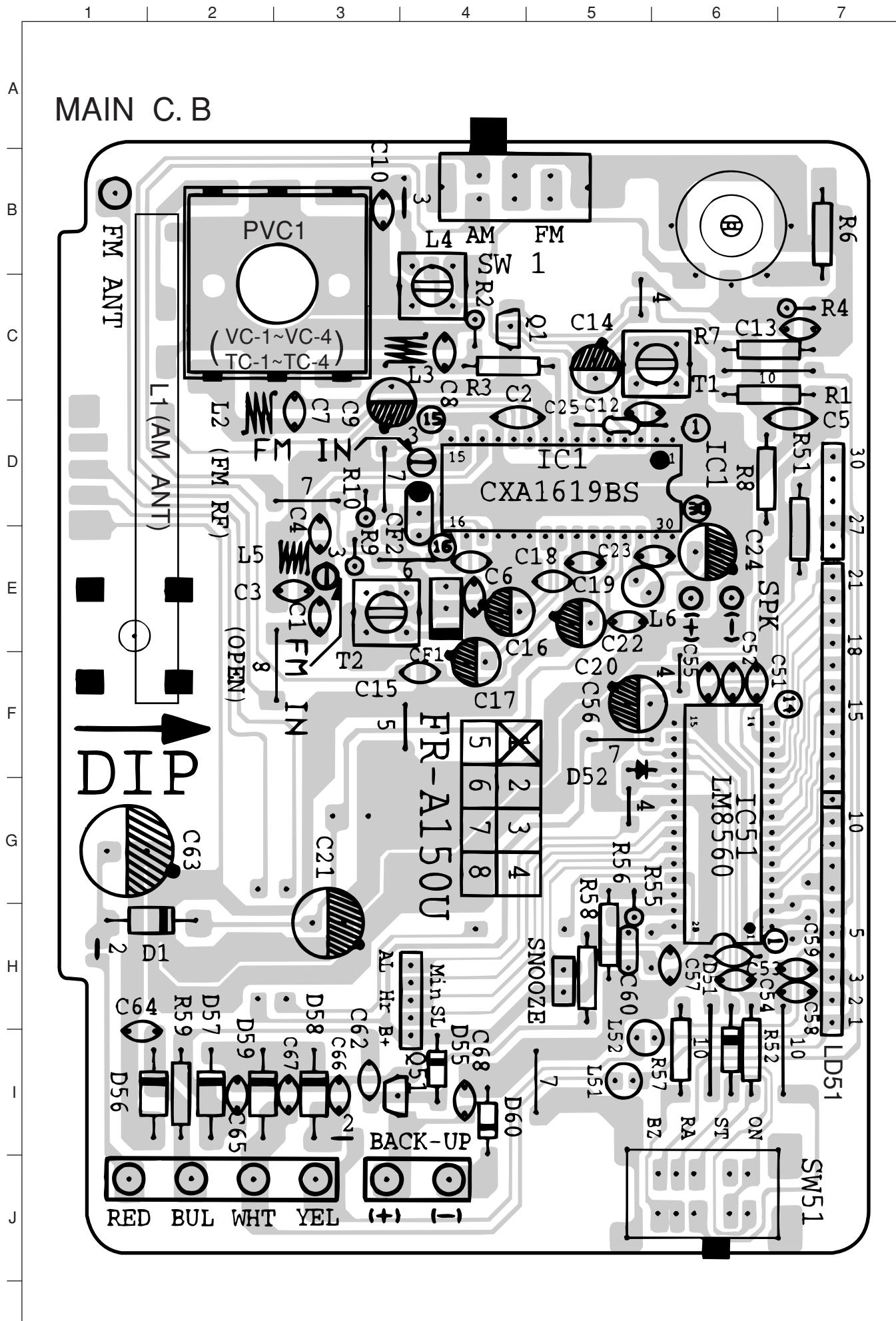


KTA1267-Y

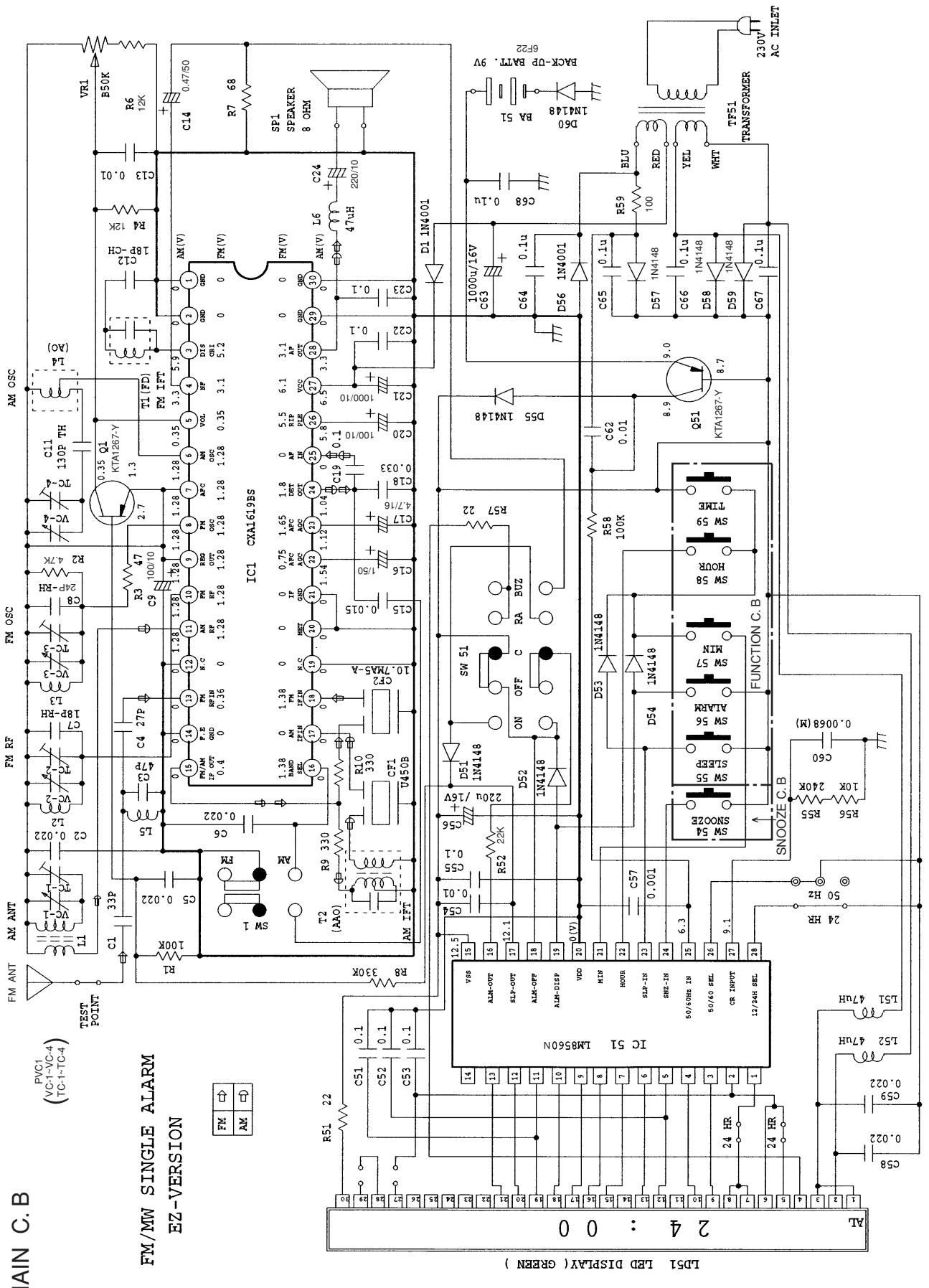
SCHEMATIC DIAGRAM-1 <U Model>



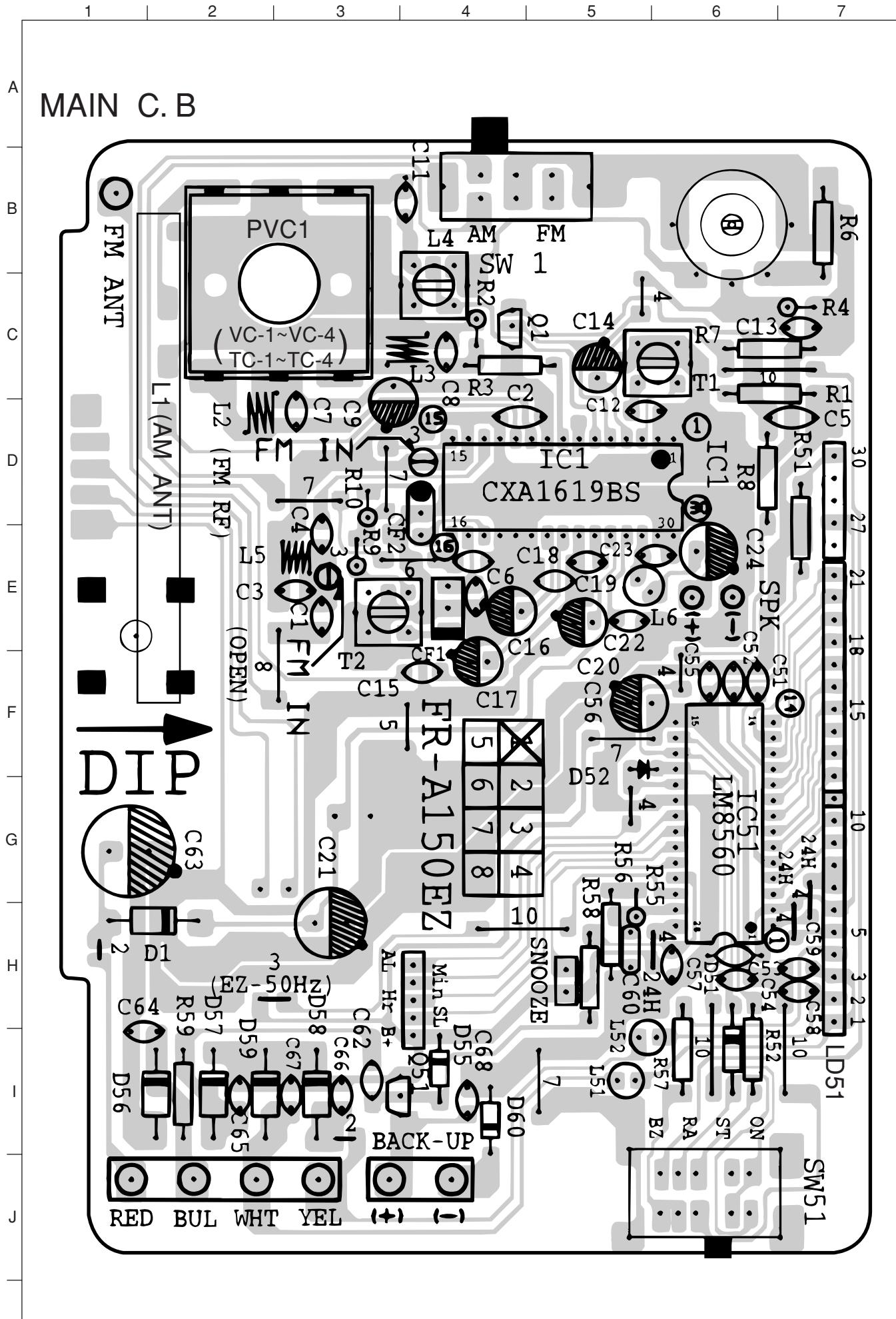
CIRCUIT BOARD DIAGRAM-1 (MAIN C.B) <U Model>



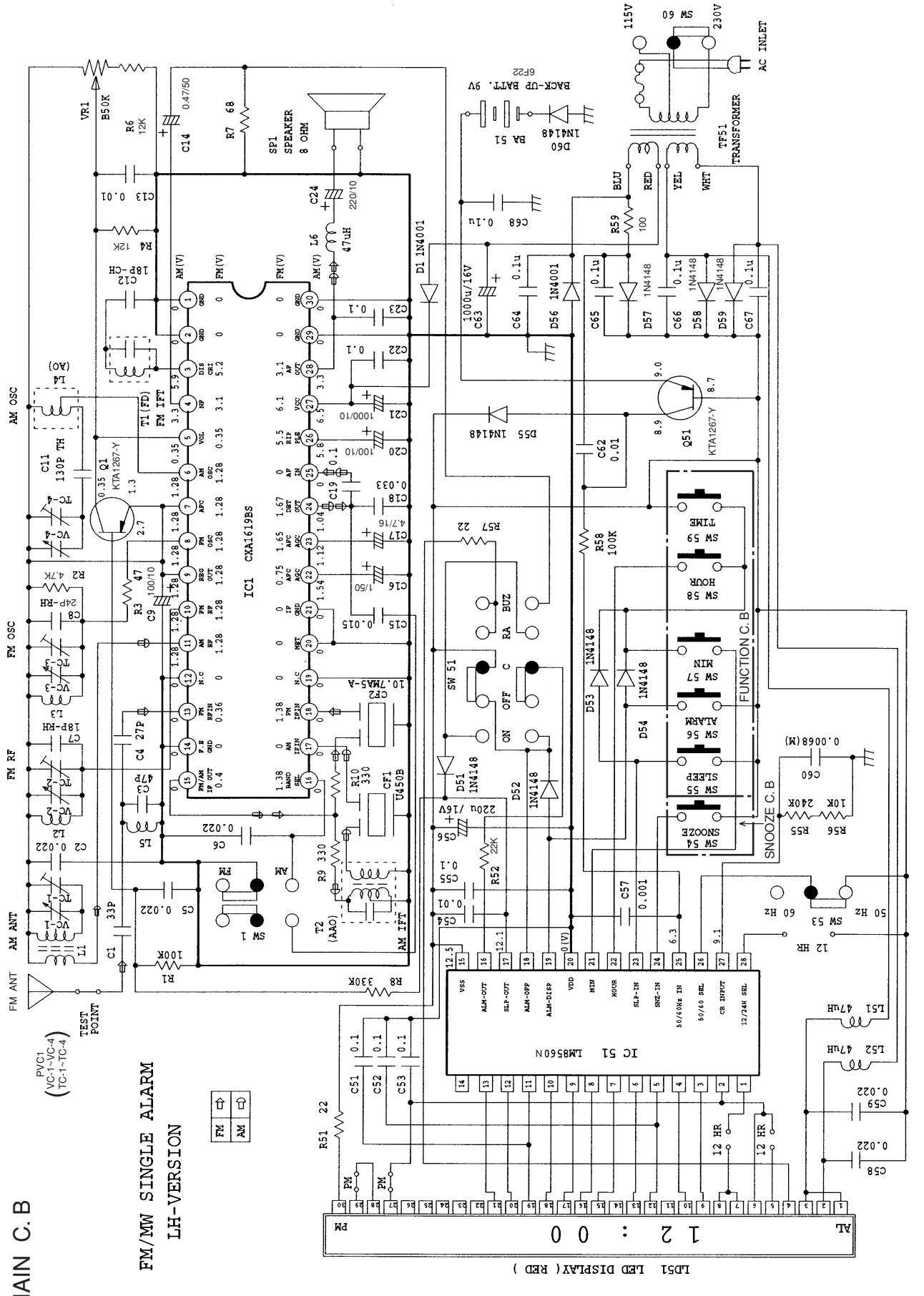
SCHEMATIC DIAGRAM-2 <EZ Model>



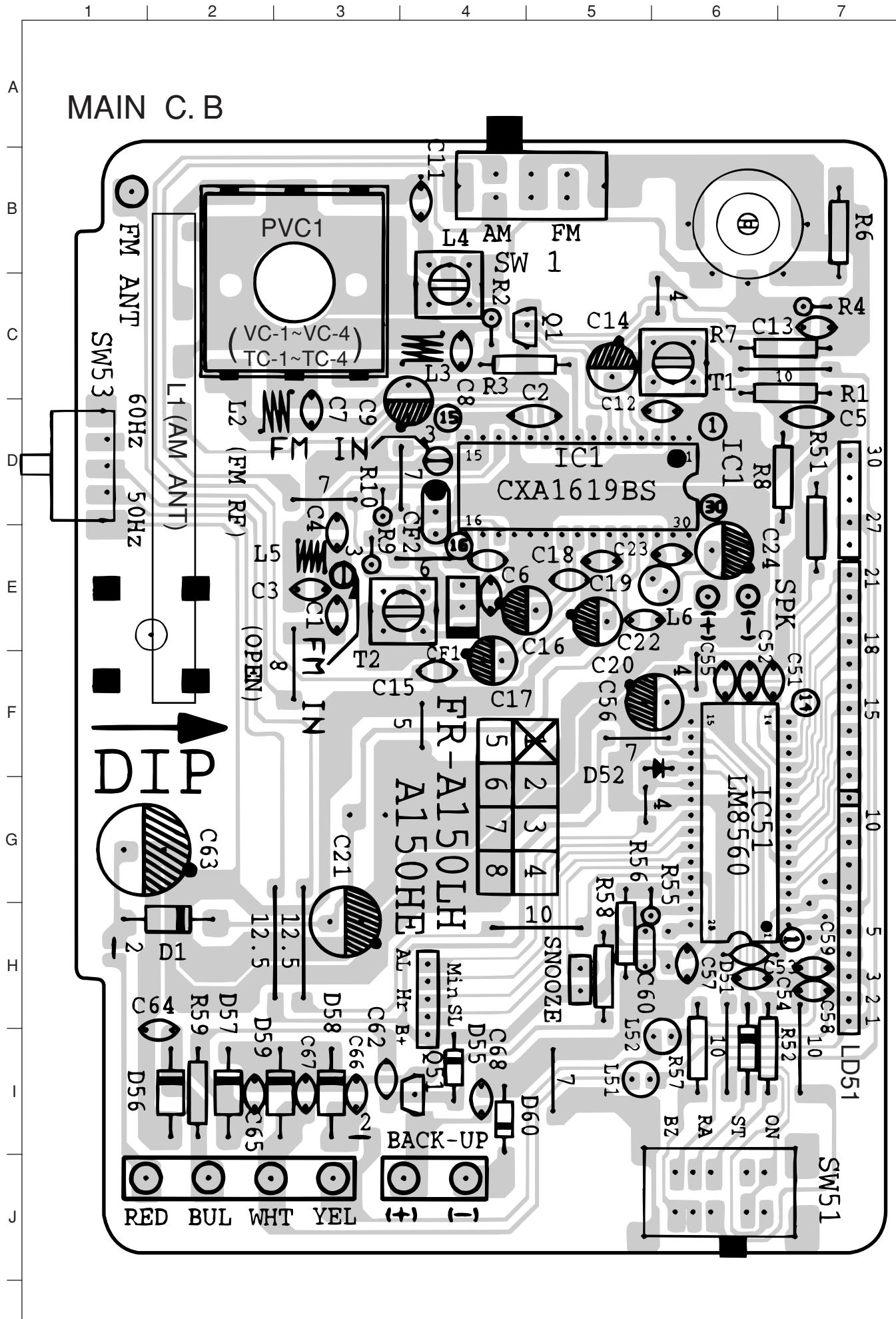
CIRCUIT BOARD DIAGRAM-2 (MAIN C.B) <EZ Model>



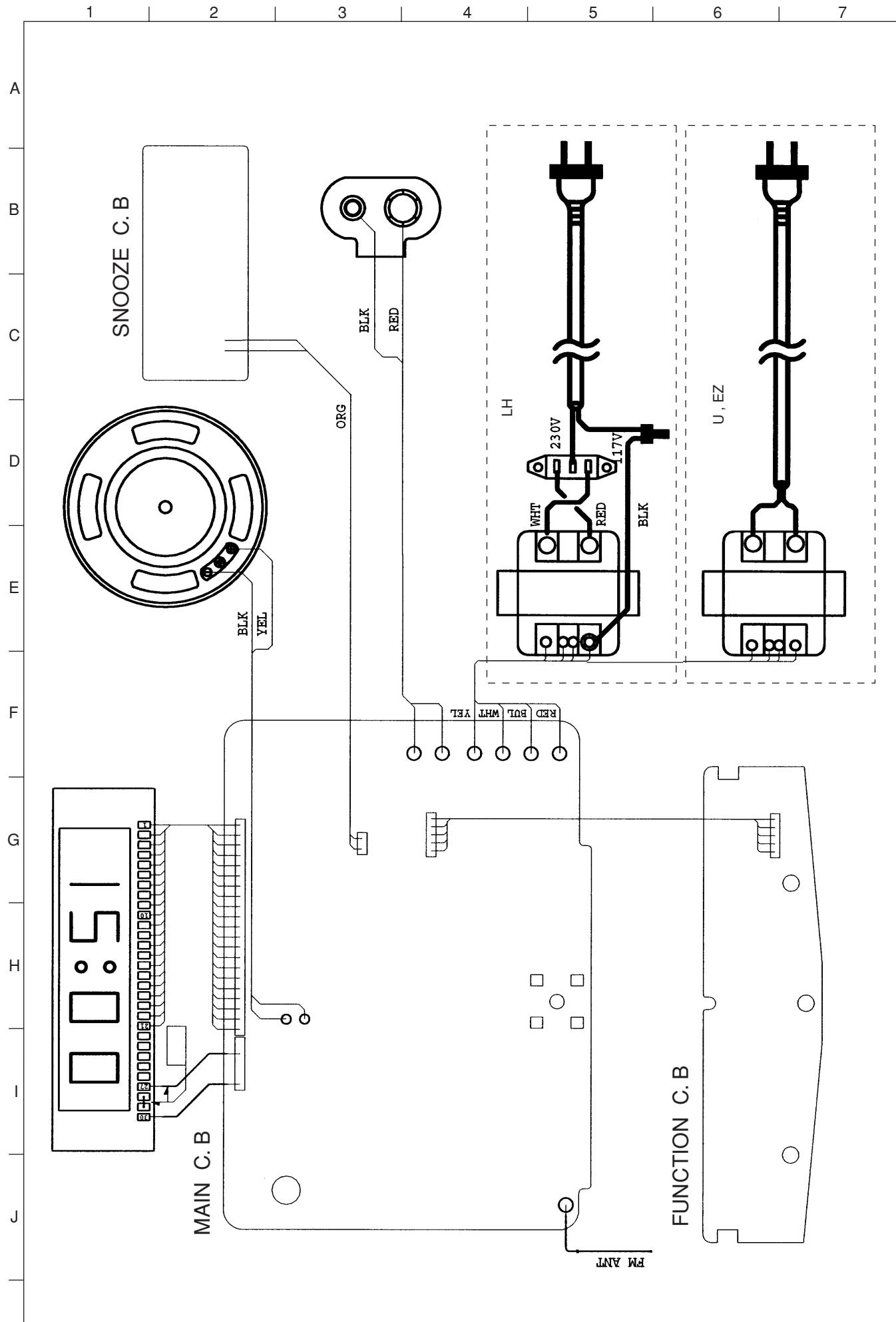
SCHEMATIC DIAGRAM-3 < LH Model >



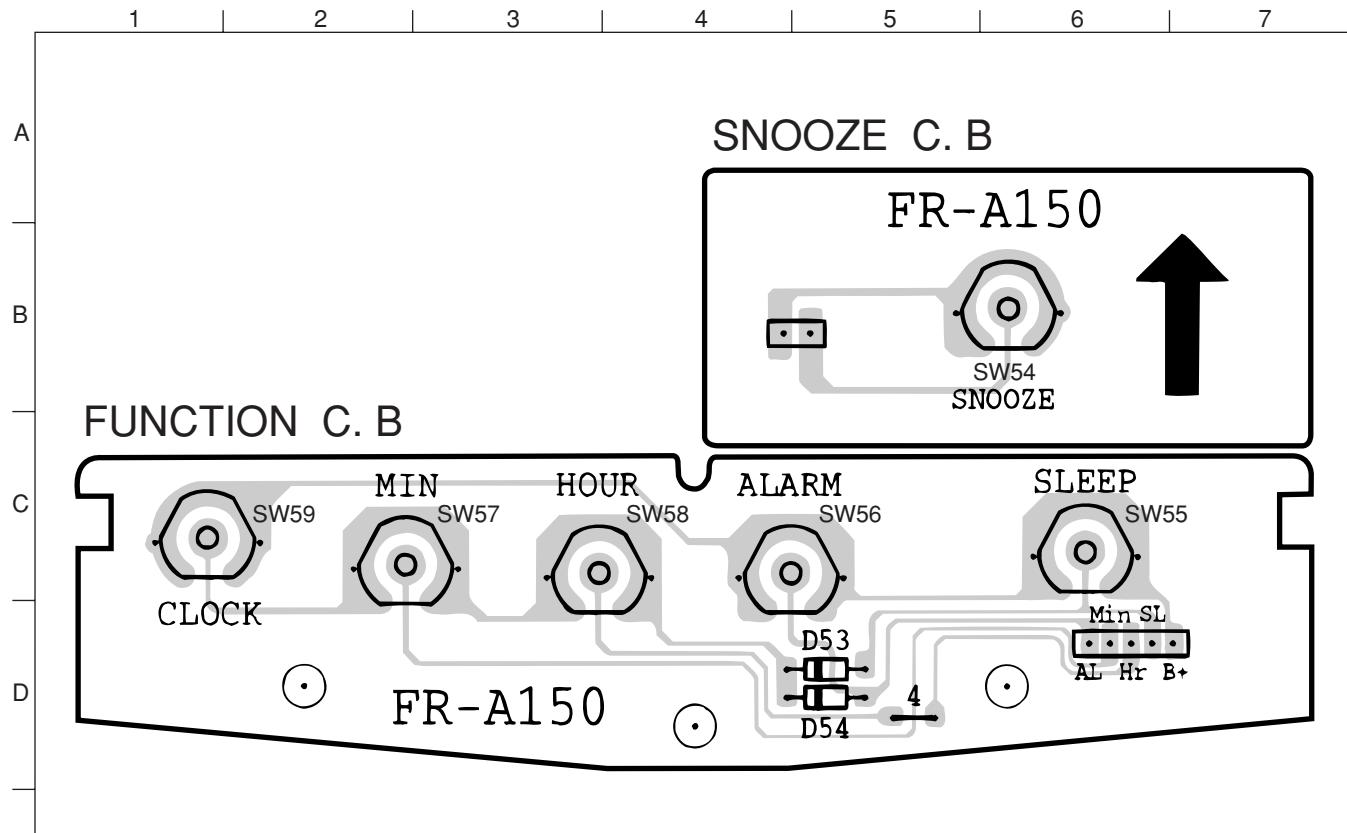
CIRCUIT BOARD DIAGRAM-3 (MAIN C.B) < LH Model >



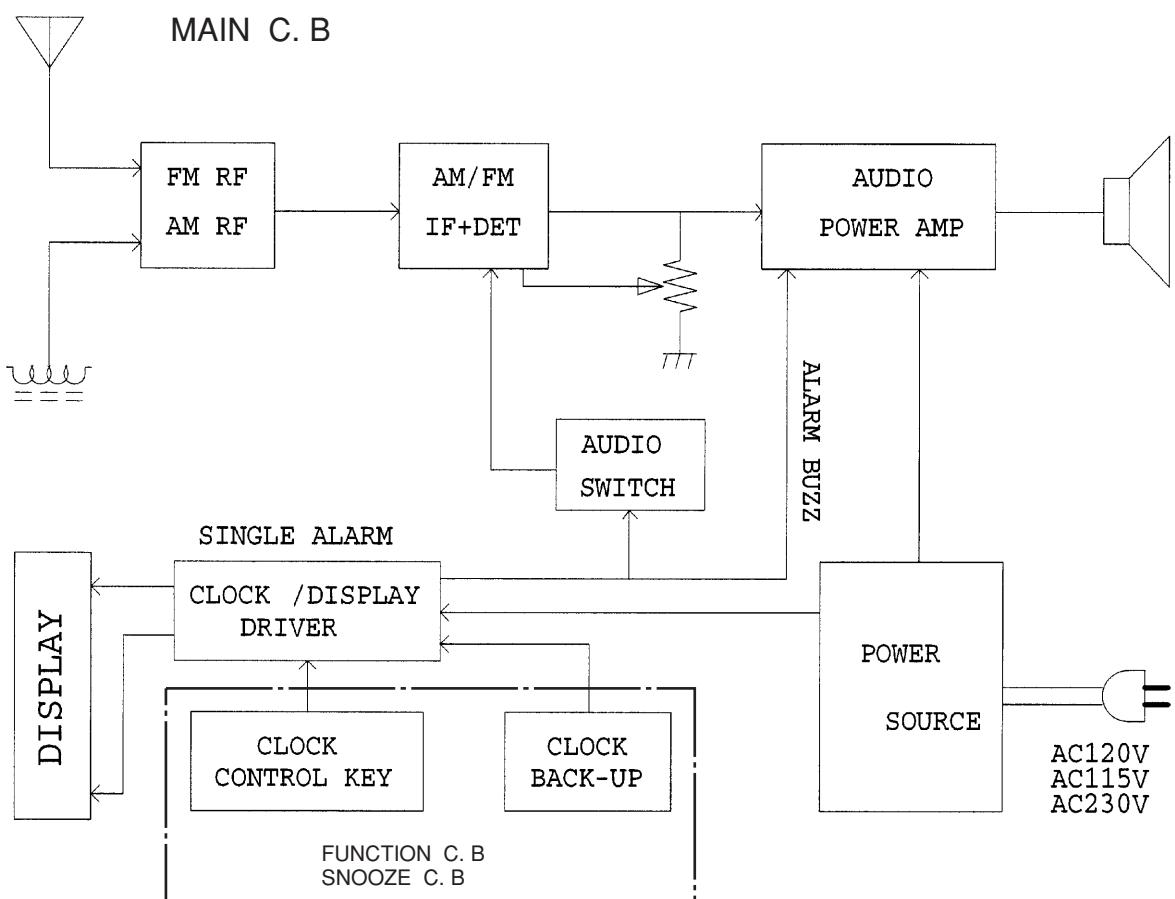
WIRING



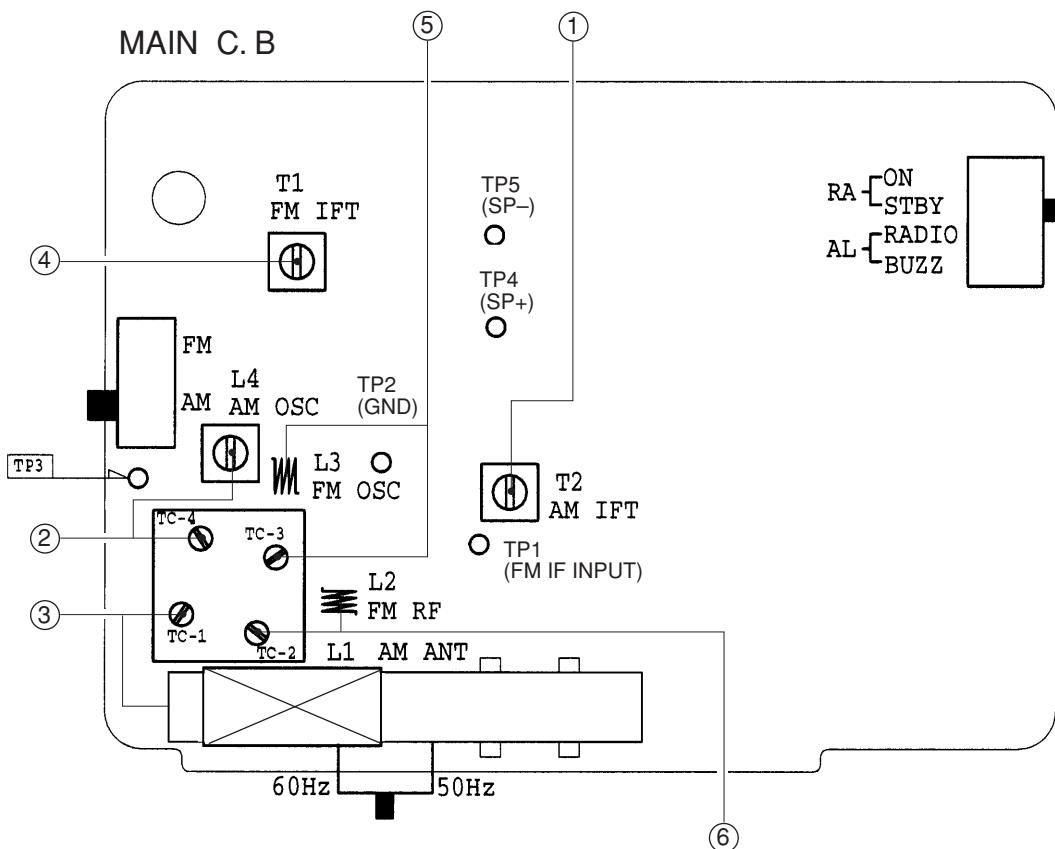
CIRCUIT BOARD DIAGRAM-4 (FUNCTION, SNOOZE C.B)



BLOCK DIAGRAM



ELECTRICAL ADJUSTMENT



1. AM IF Adjustment

T2 450 kHz

2. AM Freq. Range Adjustment <U Model>

L4 515 kHz
TC-4 1750 kHz

2. AM Freq. Range Adjustment <EZ, LH Model>

L4 515 kHz
TC-4 1635 kHz

3. AM Tracking Adjustment <U Model>

L1 600 kHz
TC-1 1500 kHz

3. AM Tracking Adjustment <EZ, LH Model>

L1 600 kHz
TC-1 1400 kHz

4. FM IF Adjustment

T1 107 MHz

5. FM Freq. Range Adjustment <U, LH model>

L3 87.0 MHz
TC-3 109.0 MHz

5. FM Freq. Range Adjustment <EZ Model>

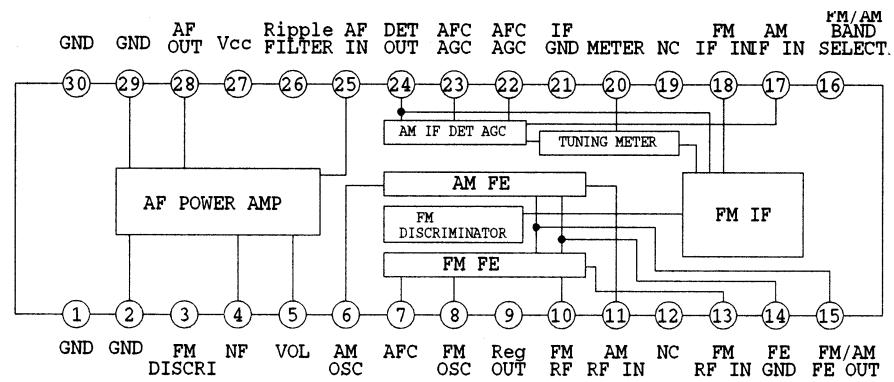
L3 87.4 MHz
TC-3 108.3 MHz

6. FM Tracking Adjustment

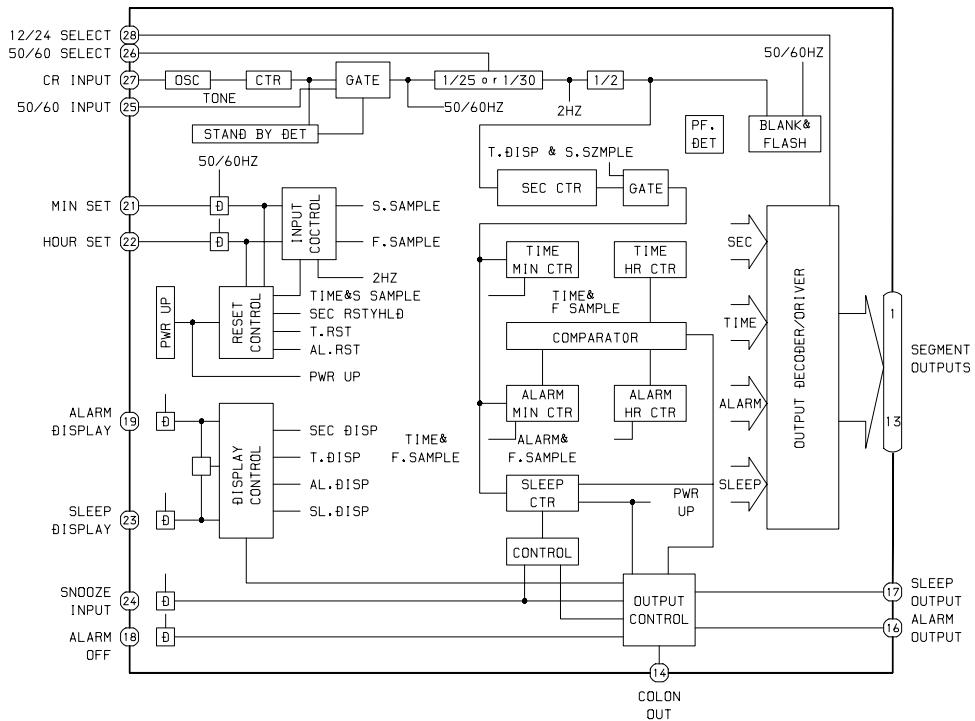
L2 90 MHz
TC-2 106 MHz

IC BLOCK DIAGRAM

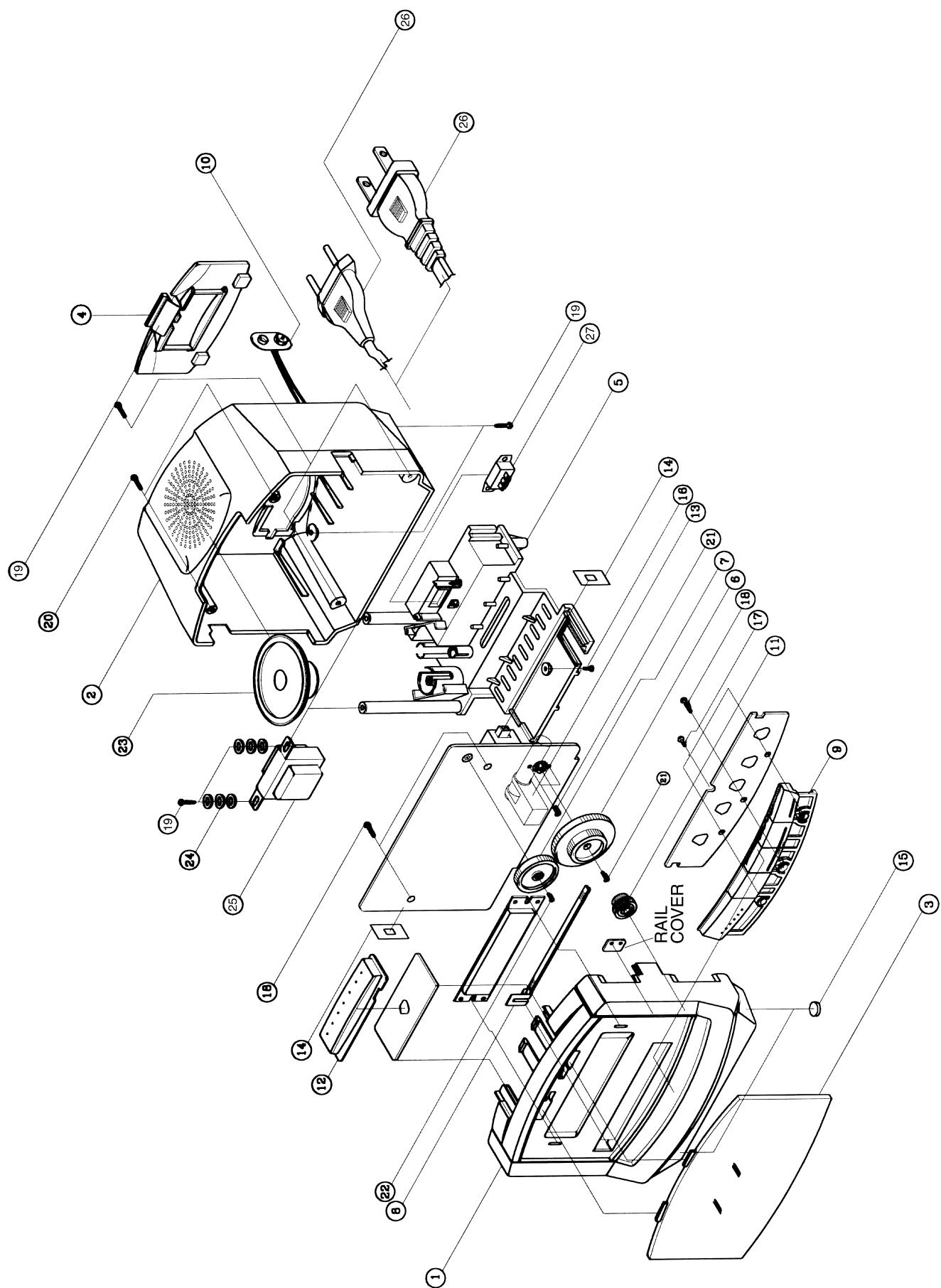
IC, CXA1619BS



IC, LM8560N



MECHANICAL EXPLODED VIEW 1/1



MECHANICAL MAIN PARTS LIST 1/1

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If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION	
1	8A-RUA-001-010		CABI, FRONT U B<EXCEPT LH<W>>	12	8A-RUA-040-010		KEY, SNOOZE W<LH<W>>	
1	8A-RUA-035-010		CABI, FRONT LH W<LH<W>>	13	8A-RUA-021-010		HLDR, AM ANT	
2	8A-RUA-003-010		CABI, REAR U B<U>	14	8A-RUA-022-010		COVER, SWITCH	
2	8A-RUA-013-010		CABI, REAR LH B<LH>	15	8A-RUA-023-010		FOOT, RUBBER	
2	8A-RUA-036-010		CABI, REAR LH W<LH<W>>	16	87-721-094-410		QT2+3-6 GLD	
3	8A-RUA-005-010		LENS, DIAL U<U>	17	87-741-093-410		SCREW PTS(+)3x5 PTS0305P	
3	8A-RUA-006-010		LENS, DIAL EZ<EZ>	18	87-B10-156-010		VT2+3-8	
3	8A-RUA-014-010		LENS, DIAL LH<LH>	19	87-741-096-410		SCREW PTS(+)3x10 PTS0310P	
3	8A-RUA-039-010		LENS, DIAL LH W<LH<W>>	20	87-B10-183-010		VT2+3-20 W/O SOLT	
4	8A-RUA-016-010		COVER, BATTERY B<EXCEPT LH<W>>	21	87-222-072-410		P+2.6-5 RED	
4	8A-RUA-037-010		COVER, BATTERY W<LH<W>>	22	87-221-024-410		P+1.7-5	
5	8A-RUA-017-010		HLDR, TRANS B<U, EZ>	23	8A-RUA-628-010		SPKR, 57 80HM 0.5W	
5	8A-RUA-034-010		HLDR, TRANS LH B<LH>	24	87-081-998-010		WASHER FIBER 3x6x1.0<LH, LH<W>>	
5	8A-RUA-038-010		HLDR, TRANS LH W<LH<W>>	25	8A-RUA-630-010		PT, U 120V W/AC CORD<U>	
6	8A-RUA-032-010		KNOB, RTRY TUNING B<EXCEPT LH<W>>	25	8A-RUA-631-010		PT, EZ 230V W/AC CORD<EZ>	
6	8A-RUA-042-010		KNOB, RTRY TUNING W<LH<W>>	△	25	8A-RUA-632-010		PT, LH 115/230V W/O ACCORD <LH, LH<W>>
7	8A-RUA-033-010		KNOB, RTRY VOLUME B<EXCEPT LH<W>>	△	26	8A-RUA-633-010		CORD, AC POWERVDE TYP<LH, LH<W>>
7	8A-RUA-043-010		KNOB, RTRY VOLUME W<LH<W>>	△	27	8A-RUA-614-010		SW, SLIDE 1C2P V-SELECT <LH, LH<W>>
8	8A-RUA-019-010		POINTER, DIAL ORANGE					
9	8A-RUA-018-010		KEY, CONTROL B<EXCEPT LH<W>>					
9	8A-RUA-041-010		KEY, CONTROL W<LH<W>>					
10	8A-RUA-634-010		SOCKET, 2P BATTERY					
11	8A-RUA-020-010		GEAR, TUNING<EXCEPT LH<W>>					
11	8A-RUA-044-010		GEAR, TUNING W<LH<W>>					
12	8A-RUA-008-010		KEY, SNOOZE U B<EXCEPT LH<W>>					

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		



アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111